

2024 Regional TSA Competition

Technical Design - MS

High School teachers often travel from classroom to classroom to teach their lessons.

Design a storage system that holds at least 20 smaller containers together in one large container and be placed on a standard roller cart. Also include a spot for the teacher to store a laptop and its accessories.

The small containers must keep school supplies and materials separated (scissors, crayons, pencils, markers, rulers, glue sticks, white glue, erasers, pencil sharpeners, etc.).

The main container has a maximum length of 42", width of 36", and a depth of 24".

Select a construction material that will keep the cost low and affordable.

The solution must allow the teacher to quickly distribute the containers to students, as well as collect the containers back at the end of the class for inventory.

Note: The solution does not require the team to make an actual prototype or model. The solution is only the contents of the portfolio.